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Catalog of Hymenoptera in America North of Mexico

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Catalog of Hymenoptera in America North of Mexico

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Introduction

By
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and
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Preparation and production of this third volume containing various indexes has been tremendously facilitated and accelerated by computer technology. Manipulation of the data base already computerized for the catalog itself (Volumes 1 and 2) enabled us to obtain a listing of taxa in all hierarchies or data categories in numerical sequence. Page numbers were punched by hand, entered into the computer, and then separate programs were run for each index resulting in the arrangement of taxa in alphabetical sequence with pertinent page references. The final step was the conversion of the computerized data to a special magnetic tape capable of driving the phototypesetting unit, the VideoComp 500 Photo Composer, in the Government Printing Office.

Numbers of Genera and Species

The following tables are presented to answer one of the most frequently posed questions concerning a catalog—how many taxa? Table 1 gives the number of valid genera and species of each family and higher category in America north of Mexico. The taxa are arranged in sequence as they appear in the catalog. Subspecies and varieties of a polytypic species listed as valid entities are counted as only one species. For example, *alba alba* and *alba rufa* are counted as only one species. However, if only one taxon of a polytypic species occurs in America north of Mexico, it is counted as a species. Species listed in unplaced categories are generally not included. Numbers in parentheses represent totals for categories above family level.

In Table 2 the superfamilies are arranged by size according to number of species and percent of the total species of Hymenoptera in America north of Mexico.

Table 1. Numbers of Hymenoptera taxa in America North of Mexico

	Genera	*Species*
HYMENOPTERA	(2,014)	(17,429)
Symphyta	(139)	(992)
Megalodontoidea	(9)	(101)
Xyelidae	5	29
Pamphiliidae	4	72
Tenthredinoidea	(114)	(848)
Pergidae	2	5
Argidae	8	59
Cimbicidae	3	12
Diprionidae	6	41
Tenthredinidae	95	731
Siricoidea	(10)	(31)
Syntexidae	1	1
Siricidae	5	19
Xiphydriidae	1	6
Orussidae	3	5
Cephoidea	(6)	(12)
Cephidae	6	12

	Genera	Species
Apocrita	(1,875)	(16,437)
Parasitica	(1,381)	(9,418)
Ichneumonoidea	(683)	(5,381)
Braconidae	162	1,937
Aphidiidae	16	114
Hybrizontidae	1	2
Ichneumonidae	502	3,322
Stephanidae	2	6
Chalcidoidea	(490)	(2,223)
Torymidae	27	175
Pteromalidae	129	395
Eurytomidae	22	244
Chalcididae	12	102
Leucospididae	1	5
Eucharitidae	6	28
Eupelmidae	13	95
Encyrtidae	160	509
Eulophidae	82	507
Mymaridae	21	120
Trichogrammatidae	17	43
Cynipoidea	(87)	(817)
Ibaliidae	1	7
Liopteridae	2	3
Figitidae	18	60
Eucoilidae	15	80
Alloxystidae	5	31
Cynipidae	46	636
Evanioidea	(7)	(54)
Evaniidae	4	11
Aulacidae	2	28
Gasteruptiidae	1	15
Pelecinoidea	(1)	(1)
Pelecinidae	1	1
Proctotrupoidea	(97)	(829)
Vanhorniidae	1	1
Roproniidae	1	3
Heloridae	1	1
Proctotrupidae	5	54
Diapriidae	35	303
Scelionidae	34	275
Platygasteridae	20	192
Ceraphronoidea	(12)	(109)
Ceraphronidae	6	48
Megaspilidae	6	61
Trigonaloidea	(4)	(4)
Trigonalidae	4	4
Aculeata	(494)	(7,019)
Bethyloidea	(70)	(474)
Bethylidae	20	169
Sclerogibbidae	1	1
Chrysididae	20	163
Dryinidae	27	139
Embolemidae	2	2
Scolioidea	(51)	(748)
Tiphiidae	23	236
Sierolomorphidae	1	6
Mutillidae	17	467
Scoliidae	7	22
Sapygidae	3	16
Formicoidea	(73)	(580)
Formicidae	73	580
Vespoidea	(31)	(323)
Masaridae	2	20
Eumenidae	23	264
Vespidae	6	39
Pompiloidea	(36)	(290)
Pompilidae	34	288
Rhopalosomatidae	2	2
Sphecoidea	(112)	(1,139)
Ampulicidae	3	4
Sphecidae	11	125
Pemphredonidae	18	160
Astatidae	3	37
Larridae	17	223
Crabronidae	16	193
Mellinidae	2	7
Nyssonidae	35	240
Philanthidae	7	150
Apoidea	(121)	(3,465)
Colletidae	5	153
Oxaeidae	2	4
Andrenidae	15	1,199
Halictidae	22	502
Melittidae	3	30
Megachilidae	24	610
Anthophoridae	46	920
Apidae	4	47

Table 2. Superfamilies ranked by percent of total species of Hymenoptera

	Number of species	Percent of total species
1. Ichneumonoidea	5,381	30.87
2. Apoidea	3,465	19.88
3. Chalcidoidea	2,223	12.75
4. Sphecoidea	1,139	6.53
5. Tenthredinoidea	848	4.86
6. Proctotrupoidea	829	4.75
7. Cynipoidea	817	4.68
8. Scolioidea	748	4.29
9. Formicoidea	580	3.32
10. Bethyloidea	474	2.71
11. Vespoidea	323	1.85
12. Pompiloidea	290	1.66
13. Ceraphronoidea	109	.62
14. Megalodontoidea	101	.57
15. Evanioidea	54	.30
16. Siricoidea	31	.17
17. Cephoidea	12	.06
18. Trigonaloidea	4	.02
19. Pelecinoidea	1	.005
	17,429	99.895

Taxonomic and Nomenclatural Changes

A number of taxonomic and nomenclatural changes were proposed in Volumes 1 and 2. The changes included such categories as new genus, new species, new names to replace homonyms, new synonyms, new combinations and new status. The new genus, new species and new names were listed on pp. xii and xiii of both Volumes 1 and 2. The other taxonomic and nomenclatural changes with pertinent page numbers are listed in the sections which follow.

NEW SYNONYMS

There were some new synonyms at the generic level and numerous new synonyms at the specific level. These were indicated in the Catalog text by the abbreviation "N. syn." following the bibliographic citation of the taxon being synonymized. The synonymy is to be attributed to the author of the section unless the name of another specialist in parentheses follows "N. syn.". In the list which follows, the name of the authority for the synonymy follows the name of the author of the taxon. For example, in the first entry, "*Xyela coloradensis* Rohwer under *Xyela minor* Norton, Smith," Smith made the synonymy.

Xyelidae

Xyela coloradensis Rohwer under *Xyela minor* Norton, Smith . . . . . p. 8
Megaxyela langstoni Ross under *Megaxyela major* (Cresson), Smith . . . . . p. 10
Pleroneura aviingrata Dyar under *Megaxyela tricolor* (Norton), Smith . . . . . p. 10

Pergidae

Acordulecera antennata Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 19
Acordulecera erythrogastra Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 19
Acordulecera parva Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 19
Acordulecera nigrata Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 20
Acordulecera basirufa Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 20
Acordulecera quercus Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 20
Acordulecera hicoriae Rohwer under *Acordulecera dorsalis* Say, Smith . . . . . p. 20
Acordulecera scutellata Rohwer under *Acordulecera pellucida* (Konow), Smith . . . p. 20

Argidae

Rhopalospiria Enderlein under *Arge* Schrank, Smith . . . . . p. 21
Hylotoma mentzeliae Cockerell under *Arge clavicornis* (Fabricius), Smith . . . . . p. 21
Hylotoma nigrescens Rohwer under *Arge clavicornis* (Fabricius), Smith . . . . . p. 21
Tenthredo rubiginosa Beauvois under *Arge coccinea* (Fabricius), Smith . . . . . p. 21
Hylotoma erythrosoma Leach under *Arge coccinea* (Fabricius), Smith . . . . . p. 21
Hylotoma sphinx Kirby under *Arge coccinea* (Fabricius), Smith . . . . . p. 21
Hylotoma scutellata Say under *Arge humeralis* (Beauvois), Smith . . . . . p. 21
Hylotoma grandis Rohwer under *Arge humeralis* (Beauvois), Smith . . . . . p. 21

Diprionidae

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Tenthredinidae

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Dolerus agcistus var. *maroa* Ross under *Dolerus agcistus* MacGillivray, Smith . . . p. 45
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Dolerus graenicheri MacGillivray under *Dolerus bicolor* (Beauvois), Smith . . . . . p. 45
Dolerus bicolor var. *nigrita* Ross under *Dolerus bicolor* (Beauvois), Smith . . . . . p. 45
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Amauronematus vacalus MacGillivray under *Pristiphora chlorea* (Norton), Smith . . .p. 61
Pristiphora ortinga Kincaid under *Pristiphora melanocarpa* (Hartig), Smith . . . . .p. 63
Pristiphora zella Rohwer under *Pristiphora pallidiventris* (Fallen), Smith . . . . . .p. 64
Pristiphora pallicoxa Rohwer under *Pristiphora pallidiventris* (Fallen), Smith . . . p. 64
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NEW STATUS

The abbreviation "n. status" was used following the author of a species-level name when a taxon formerly considered to be a subspecies was raised to specific rank in the Catalog, or when a taxon previously recognized as a species was reduced to subspecific rank. The author of the section was responsible for making the change unless the name of another specialist in parentheses follows the "n. status". In the list which follows, the name of the authority who made the change follows the name of the author of the taxon. For example, in the first entry, *"Ephialtes annulicornis componotus* (Davis), Carlson," Carlson made the change.

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Indexes

The bulk of this volume consists of separate indexes to the taxa of North American Hymenoptera and to their hosts, parasites, prey, pollen and nectar sources, and predators. Author names are used only in the index to taxa of Hymenoptera.

There is only a single page reference to the majority of taxa of Hymenoptera; however, two page numbers are given where the heading for the typical subgenus is separated by more than a page from the entry for the generic name. Multiple page numbers are used for many of the taxa of hosts, parasites, and so forth, because so many species of animals and plants may be associated with more than a single species of Hymenoptera. Occasionally the same host or parasite may appear more than once on the same page; in this case a number in parentheses follows the page number to indicate the number of times one will find that name on the page. Each index has individual marginal coding to facilitate usage.

Index to Taxa of Hymenoptera

This index contains both superspecific and species-group names. Supergeneric names are set in capital letters, valid names in Roman, synonyms and homonyms in italics. Entries for valid subspecies, races and varieties are denoted by [s], [r] or [v] following the generic name.

Index to Hosts

Included here are the names of the organisms, both animal and plant, which serve as the source of developmental nutrition for Hymenoptera during at least one stage of their development. Excluded are the nectar and pollen sources which are treated in a separate index.

Index to Parasites

This index lists the parasites of Hymenoptera Aculeata only. The term is used broadly because the nature of the relationship is not always clear. Accordingly, the taxa listed here may be ecto- or endoparasites, social parasites, cleptoparasites, or other associates such as symbionts, inquilines or scavengers.

Index to Prey

Included here are the taxa of Arthropoda which are stored as larval food by the more advanced aculeate wasps.

Index to Pollen and Nectar Sources

Since in addition to the established nectar and pollen sources much of the known information on the intrafloral relationships of aculeate Hymenoptera pertains to floral visitation records of unspecified or even unknown

purpose, this index embraces all the plant taxa listed in the category labeled pollen. In some entries the abbreviations aff. (related to) and cf. (compare) are used to preserve the original literature citations.

Index to Predators

This brief index lists the taxa in several genera of higher wasps which store other species of Hymenoptera in their nests as food for their larvae. Also included are various vertebrate and invertebrate predators of species of Hymenoptera.

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